PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH

Attorney Name: DOUGLAS P. MUELLER

Phone No.: 612.332.5300

Sheet 1 of 3

1 M 7

- * The mark "M" indicates a 100 bp ladder molecular weight marker.
- * In each of the regions ① to ⑦, the dilution factors of the samples are 10^{-4} , $10^{-3.5}$, 10^{-3} , $10^{-2.5}$, and 10^{-2} from the left of the lane.
- ① Samples only heat-treated in TE-Triton reagent.
- ② Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 100 units/ml
- Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 500 units/ml
- 4 Samples treated with Lipase G "AMANO" 50 and then heat-treated in TE-Triton reagent. Lipase concentration: 1,000 units/ml
- Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 100 units/ml
- 6 Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 500 units/ml
- ② Samples treated with Lipase AY "AMANO" 30G and then heat-treated in TE-Triton reagent. Lipase concentration: 1,000 units/ml

FIG. 1

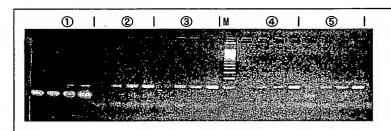
1 / 3

Docket No.: 10873.1416USWO Title: METHOD OF EFFECTING LYSIS OF ACID-FAST BACTERIA AND METHOD OF

PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH
Attorney Name: DOUGLAS P. MUELLER

Phone No.: 612.332.5300

10/500435



- * The mark "M" indicates a 100 bp ladder molecular weight marker.
- * In each of the regions ① to ⑦, the dilution factors of the samples are 10^{-4} , $10^{-3.5}$, 10^{-3} , and $10^{-2.5}$ from the left of the lane.
- 1 Samples subjected to lipase treatment and heat treatment simultaneously in mixed reagent.
- ② Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 10 min → 96°C, 10 min
- 3 Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 30 min → 96°C, 10 min
- Samples treated with Lipase AY "AMANO" 30G at 37°C for 10 min and then heat-treated at 96°C for 10 min after adding TE-Triton reagent.
- ⑤ Samples treated with Lipase AY "AMANO" 30G at 37°C for 10 min and then heat-treated at 96°C for 10 min after adding TE-Triton reagent.

FIG. 2

Inventor: KAMATA ET AL. Docket No.: 10873.1416USWO

Title: METHOD OF EFFECTING LYSIS OF ACID-FAST BACTERIA AND METHOD OF

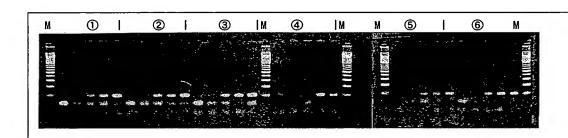
PERFORMING GENE AMPLIFICATION OR DETECTION THEREWITH

Attorney Name: DOUGLAS P. MUELLER

Phone No.: 612.332.5300

Sheet 3 of 3

. 101500435 |



- * The mark "M" indicates a 100 bp ladder molecular weight marker.
- * In each of the regions ① to ⑦, the dilution factors of the samples are $10^{-4.5}$, 10^{-4} , $10^{-3.5}$, 10^{-3} , and $10^{-2.5}$ from the left of the lane.
- ① to ③: Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and TE-Triton reagent. 45°C, 10 min \rightarrow 96°, 10 min (in the presence of EDTA)
- 4 to 6: Samples treated with mixed reagent containing Lipase AY "AMANO" 30G and Tris-triton reagent. 45°C, $10 \min \rightarrow 96$ °, $10 \min$ (in the absence of EDTA)

FIG. 3